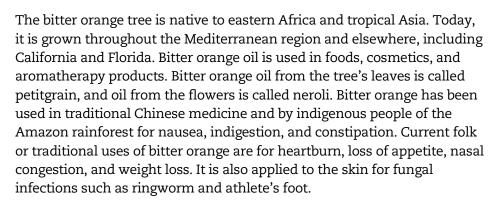
herbs at a glance

Bitter Orange

This fact sheet provides basic information about bitter orange—common names, what the science says, potential side effects and cautions, and resources for more information.

Common Names—bitter orange, Seville orange, sour orange, zhi shi

Latin Name—Citrus aurantium



The dried fruit and peel (and sometimes flowers and leaves) are taken by mouth in extracts, tablets, and capsules. Bitter orange oil can be applied to the skin.

What the Science Says

- There is not enough scientific evidence to support the use of bitter orange for health purposes.
- Many herbal weight-loss products now use concentrated extracts of bitter orange peel in place of ephedra. However, bitter orange contains the chemical synephrine, which is similar to the main chemical in ephedra. The U.S. Food and Drug Administration banned ephedra because it raises blood pressure and is linked to heart attacks and strokes; it is unclear whether bitter orange has similar effects. There is currently little evidence that bitter orange is safer to use than ephedra.



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Side Effects and Cautions

- Because bitter orange contains chemicals that may speed up the heart rate and raise blood
 pressure, it may not be safe to use as a dietary supplement. There have been reports of fainting,
 heart attack, and stroke in healthy people after taking bitter orange supplements alone or
 combined with caffeine. People should avoid taking bitter orange supplements if they have a
 heart condition or high blood pressure, or if they are taking medications (such as MAO
 inhibitors), caffeine, or other herbs/supplements that speed up the heart rate.
- Due to lack of safety evidence, pregnant women or nursing mothers should avoid products that contain bitter orange.
- Bitter orange oil used on the skin may increase the risk of sunburn, particularly in lightskinned people.
- Tell all your health care providers about any complementary health practices you use. Give them a full picture of what you do to manage your health. This will help ensure coordinated and safe care. For tips about talking with your health care providers about complementary and alternative medicine, see NCCAM's Time to Talk campaign at nccam.nih.gov/timetotalk/.

Sources

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For More Information

Visit the NCCAM Web site at nccam.nih.gov and view Using Dietary Supplements Wisely (nccam.nih.gov/health/supplements/wiseuse.htm).

NCCAM Clearinghouse

Toll-free in the U.S.: 1-888-644-6226 TTY (for deaf and hard-of-hearing callers): 1-866-464-3615 E-mail: info@nccam.nih.gov

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